

1   **ABSTRACT OF THE DISCLOSURE**

2           A parallel redundant power system and a method for control the same,  
3   wherein the power system is composed by UPS modules with outputs coupled in  
4   parallel to supply power to a load through a bus. The control method employs the  
5    $P - \omega$  and  $Q - V$  slope lines of the droop method to perform phase locking and  
6   current sharing. Moreover, the method further utilizes the internal impedance of  
7   the UPS in accompaniment with a current shift method to simulate an actual  
8   inductor being coupled to the output of the UPS module so as to satisfy the droop  
9   method. Therefore, the drawbacks otherwise caused from actual inductors such  
10   as the large size and heave weight are eliminated.